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 PTO/SB/08a (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	US National Phase of PCT/IL/2004/000661 10565240
				Filing Date	Herewith
				First Named Inventor	Mordechai DEUTSCH et al
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	4	Attorney Docket Number	30008

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US-5,395,588	07-7-1995	North Jr. et al.	
	2	US-6,117,612	09-12-2000	Halloran et al.	
	3	US-6,206,672	03-27-2001	Grenda	
	4	US-6,228,437	08-8-2001	Schmidt	
	5	US-6,238,614	05-29-2001	Yang et al.	
	6	US-6,329,195	12-11-2001	Pfaller	
	7	US-6,333,192	12-25-2001	Petitte et al.	
	8	US-6,338,964	01-15-2002	Matanguihan et al.	
	9	US-6,342,384	01-29-2002	Chung et al.	
	10	US-6,344,354	05-5-2002	Webster et al.	
	11	US-6,372,494	04-16-2002	Naughton et al.	
	12	US-6,376,148	04-23-2002	Liu et al.	
	13	US-6,378,527	04-30-2002	Hungerford et al.	
	14	US-6,383,810	07-7-2002	Fike et al.	
	15	US-6,403,369	06-11-2002	Wood	
	16	US-6,410,309	06-25-2002	Barbera- Guillem et al.	
	17	US-6,413,744	02-2-2002	Morris et al.	
	18	US-6,413,746	02-2-2002	Field	
	19	US-6,455,310	09-24-2002	Barbera-Guillem et al.	
	20	US-6,465,000	10-15-2002	Kim	
	21	US-6,465,205	10-15-2002	Hicks, Jr.	
	22	US-6,468,788	10-22-2002	Marotzki	
	23	US-6,479,252	11-12-2002	Barbera-Guillem et al.	
	24	US-6,489,144	03-3-2002	Lau	
	25	US-6,492,148	12-10-2002	van Loon et al.	
	26	US-6,492,163	12-10-2002	Yoo et al.	
	27	US-6,506,598	01-14-2003	Andersen et al.	
	28	US-6,511,430	01-28-2003	Sherar et al.	
	29	US-6,528,286	04-4-2003	Ryll	
	30	US-655,365	07-7-1900	Johnson	
	31	US-6,569,422	05-27-2003	van Loon et al.	
	32	US-6,588,586	08-8-2003	Abasolo et al.	
	33	US-6,589,765	08-8-2003	Choi et al.	
	34	US-6,593,140	07-15-2003	Field	
	35	US-6,610,516	08-26-2003	Andersen et al.	
	36	US-6,627,426	09-30-2003	Biddle et al.	
	37	US-6,635,448	10-21-2003	Bucciarelli et al.	
	38	US-6,642,050	11-14-2003	Goto et al.	
	39	US-6,649,408	11-18-2003	Bailey et al.	
	40	US-6,667,034	12-23-2003	Palsson et al.	
	41	US-6,670,180	12-30-2003	Block	
	42	US-6,670,184	12-30-2003	Chiarello et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /WHB/

Receipt date: 01/19/2006

10565240 GAI: 1775
10/565240

43	US-6,673,591	06-6-2004	Lau
44	US-6,686,190	03-3-2004	Lau
45	US-6,689,594	02-10-2004	Hänni et al.
46	US-6,692,961	02-17-2004	Judd et al.
47	US-5,854,684	12-29-1998	Stabile et al.
48	US-4,894,343	01-16-1990	Tanaka et al.
49	US-2002/0173033	11-21-2002	Hammerick et al.
50	US-5,627,045	06-6-1997	Bochner et al.
51	US-4,308,351	12-29-1981	Leighton et al.
52	US-2003/0030184	02-13-2003	Kim et al.
53	US-5,905,031	05-18-1999	Kuylen et al.
54	US-4,729,949	08-8-1988	Weinreb et al.
55	US-2003/0032204	02-13-2003	Walt et al.
56	US-6,645,757	11-11-2003	Okandan et al.
57	US-5,506,141	09-9-1996	Weinreb et al.
58	US-2003/0211458	11-13-2003	Sunray et al.
59	US-5,272,081	12-21-1993	Weinreb
60	US-2005/0064524	03-24-2005	Deutsch et al.
61	US-2004/0235143	11-25-2004	Sasaki et al.
62	US-2003/0189850	09-9-2003	Sasaki et al.
63	US-2005/0014201	01-20-2005	Deutsch
64	US-5,428,451	06-27-1995	Lea et al.
65	US-6,103,479	08-15-2000	Taylor
66	US-6,377,721	04-23-2002	Walt et al.
67	US-5,059,266	10-22-1991	Yamane et al.
68	US-5,204,055	04-20-1993	Sachs et al.
69	US-6,046,426	04-4-2000	Jeantette et al.
70	US-6,066,285	05-23-2000	Kumar

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Documents	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	71	PCT WO 99/47922	09-23-1999	Griffith et al.		
	72	PCT WO 01/88176	11-22-2001	Sunray et al.		
	73	PCT WO 2004/077009	09-10-2004	Deutsch		
	74	PCT WO 03/035824	01-1-2003	Deutsch		
	75	PCT WO 98/35223	08-13-1998	Kamentsky et al.		
	76	PCT WO 98/15356	04-16-1998	Gordon		
	77	PCT WO 99/45357	09-10-1999	Walt et al.		
	78	PCT WO 2004/113492	12-29-2004	Deutsch et al.		
	79	PCT WO 01/35071	05-17-2001	Braff et al.		
	80	PCT WO 03/056330	07-10-2003	Lassner et al.		
	81	PCT WO 02/26114	04-4-2002	Bitensky et al.		
	82	PCT WO 03/011451	02-13-2003	Wang et al.		
	83	PCT WO 02/063034	08-15-2002	Huberman et al.		
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Filing Date		Herewith	
First Named Inventor		Mordechai DEUTSCH et al	
Group Art Unit		Not Yet Assigned	
Examiner Name		Not Yet Assigned	
Attorney Docket Number		30008	
Sheet	3	Of	4
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	84	Dolbear "Fluorescent Staining of Enzymes for Flow Cytometry", Methods Cell Biol., 33(Chap.8): 81-88, 1990.	
	85	Klingel et al. "Flow Cytometric Determination of Serine Proteinase Activities in Living Cells With Rhodamine 110 Substrates", Methods Cell Biol., 41(Chap.29): 449-460, 1994.	
	86	Malin-Berdel et al. "Flow Cytometric Determination of Esterase and Phosphatase Activities and Kinetics in Hematopoietic Cells With Fluorogenic Substrates", Cytometry, 1(3): 222-228, 1980.	
	87	Nooter et al. "On-Line Flow Cytometry. A Versatile Method for Kinetic Measurement", Methods Cell Biol., 41(Chap.32): 509-526, 1994.	
	88	Turek et al. "Leucine Aminopeptidase Activity by Flow Cytometry", Methods Cell Biol., 41(Chap.30): 461-468, 1994.	
	89	Watson et al. "Enzyme Kinetics", Methods Cell Biol., 41: 469-508, 1994.	
	90	Bedner et al. "Enzyme Kinetic Reactions and Fluorochrome Uptake Rates Measured in Individual Cells by Laser Scanning Cytometry", Cytometry, 33(1): 1-9, 1998. Abstract, P.2, Col.1, §4 - Col.2, §1, P.8, Col.2, §2.	
	91	Sunray et al. "Cell Activation Influences Cell Staining Kinetics", Spectrochimica Part A, 53: 1645-1653, 1997.	
	92	Eisenthal et al. "Infection of K562 Cells With Influenza A Virus Increases Their Susceptibility to Natural Killer Lysis", Pathobiology, 65: 331-340, 1997.	
	93	Deutsch et al. "Apparatus for High-Precision Repetitive Sequential Optical Measurement of Living Cells", Cytometry, 16: 214-226, 1994.	
	94	Sunray et al. "Determination of the Michaelis-Menten Constant (Km) of Intracellular Enzymatic Reaction for Individual Live Lymphocytes", Cytometry Supplement, 10: 68-69, & The XX Congress of the International Society for Analytical Cytology, Montpellier, F, 2000.	
	95	Darzynkiewicz et al. "Laser-Scanning Cytometry: A New Instrumentation With Many Applications", Experimental Cell Research, 249(1): 1-12, 1999. Abstract, P.2, Col.2, §4 - P.4, Col.2, §2, P.8, Col.1, §1 - Col.2, §2.	
	96	Sunray et al. "The Trace and Subgrouping of Lymphocyte Activation by Dynamic Fluorescence Intensity and Polarization Measurements", Biochemical and Biophysical Research Communications, 261(3): 712-719, 1999. Abstract, P.713, Col.1, §5, Col.2, §7 - P.714, Col.2, §1.	
	97	Sunray et al. "Determination of Individual Cell Michaelis-Menten Constants", Cytometry, 47(1): 8-16, 2002.	
	98	Dive et al. Cytometry Journal of Society for Analytical Cytology, 8(6): 552-561, 1987. Abstract.	
	99	Koh et al. "Poly(Ethylene Glycol) Hydrogel Microstructures Encapsulating Living Cells", Langmuir, 18(7): 2459-2462, 2002.	
	100	Lansing Taylor et al. "Real-Time Molecular and Cellular Analysis: The New Frontier of Drug Discovery", Current Opinion in Biotechnology, 12: 75-81, 2001.	
	101	Aplin et al. "Protein-Derivatized Glass Coverslips for the Study of Cell-to-Substratum Adhesion", Analytical Biochemistry, 113: 144-148, 1981.	
	102	Burlage et al. "Living Biosensors for the Management and Manipulation of Microbial Consortia", Annual. Rev. Microbiol., 48: 291-309, 1994.	
	103	Mrksich et al. "Using Self-Assembled Monolayers to Understand the Interactions of Man-Made Surfaces With Proteins and Cells", Annual Reviews in Biophysics and	

Receipt date: 01/19/2006

105256524075
IAP20 Rec'd PCT/PTO 19 JAN 2006

		Biomolecular Structure, 25: 55-78, 1996.	
	104	Singhvi et al. "Engineering Cell Shape and Function", Science, 264: 696-698, 1994.	
	105	Riedel et al. "Arxula Adeninivorans Based Sensor for the Estimation of Bod", Analytical Letters, 31(1): 1-12, 1998.	
	106	Simonian et al. "Microbial Biosensors Based on Potentiometric Detection", Methods in Biotechnology, 6, chapter 17: 237-248, 1998.	
	107	Arikawa et al. "Microbial Biosensors Based on Respiratory Inhibition", Methos in Biotehnology, 6, chapter 16: 225-235, 1998.	

Signature	/William Beisner/	Considered	12/05/2010
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